Missouri Botanical Garden
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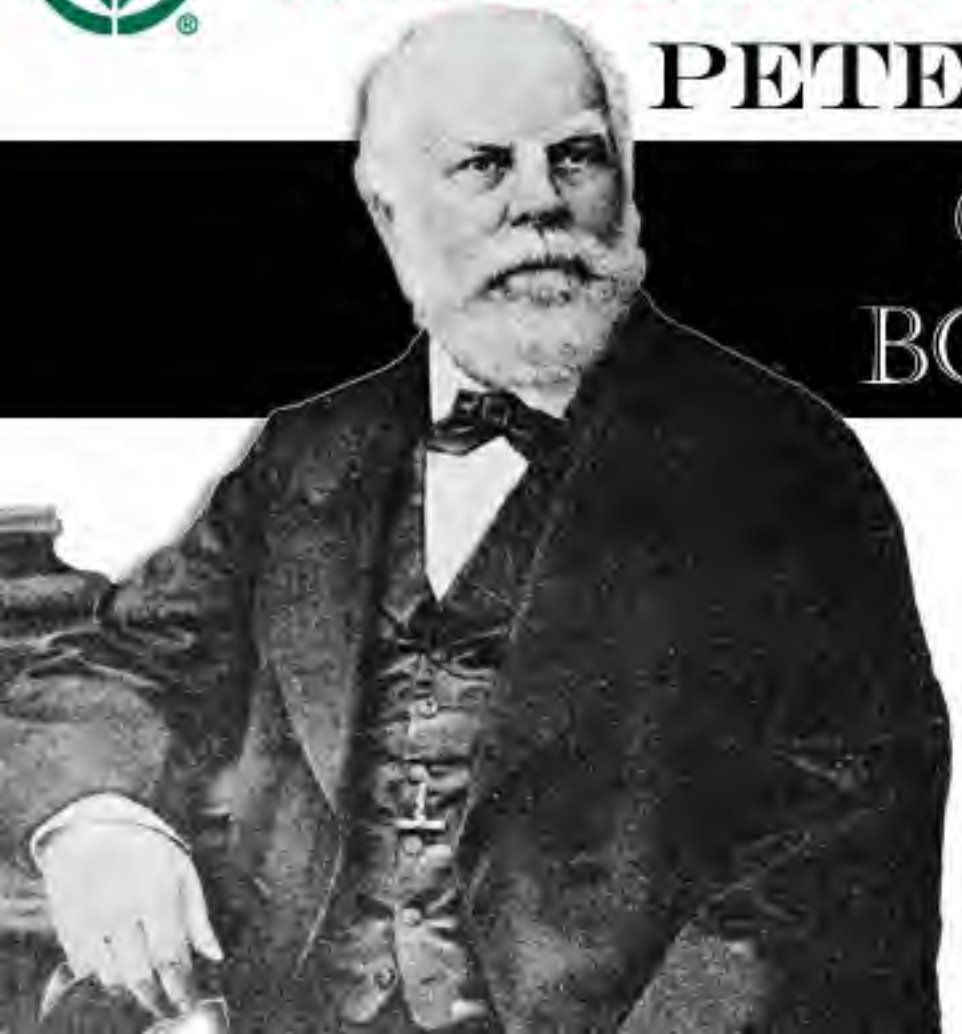
George Engelmann Botanical Notebooks



Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

	Feb.	M.	Ap'l.	May.	Jun.		Aug.	Sept	Oct.	Nov.	Dec.	Year.
1861...	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1°F.
1862...	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4°F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. *Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of* 6, 9, 12, 3, 6 *and* 9, *from morning till night, based upon daily observations at these hours through the years* 1861 *and* 1862, *at St. Louis, Mo.*

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F...	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0

243-252

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	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5		2	40°	40°
Feb.....	162	166	6	2			34	33
March ...	168	179	15	8			30	48
April	157	157	12	22	1	1	33	52
May.....	171	180	17	5	1	3	25	32
June	162	143	5	2	8	20	16	21
July.....	183	153	3	8	1	24	14	11
August..	176	143	5	4	6	40	15	19
Sept.....	169	117	1	1	10	61	18	23
Oct.....	162	143	4	3	20	41	33	35
Nov... ...	172	157	2	7	6	16	42	42
Dec... ...	175	166	5	0	6	17	37	35
	2046	1883	78	67	59	225	42°	52°

9187

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0 1 2 3 4 5 6 7 8 9 10 cm
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Scirpus lacustris
congestus capitatus
N. 1 Rolander

Jun 11 1865

sepalis chlorot-
pseudobfuscis late marginatis mucronatis
Stamen 1 ovata - rotata

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cm
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9/88

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1582 Calif. Goat Island. Febr 25 1866
State Survey near San Francisco, Bolander

611 is the same near Monterey

= No 1. Bolander.

not quite ripe

APOTHECARIES' HALL & PHARMACEUTICAL
COR. 4TH & OLIVE STS. ST. L

0 1 2 3 4 5 6 7 8 9 10
cm
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M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS

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SCIENTIFIC PAPERS

6816

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Panicum Tennis

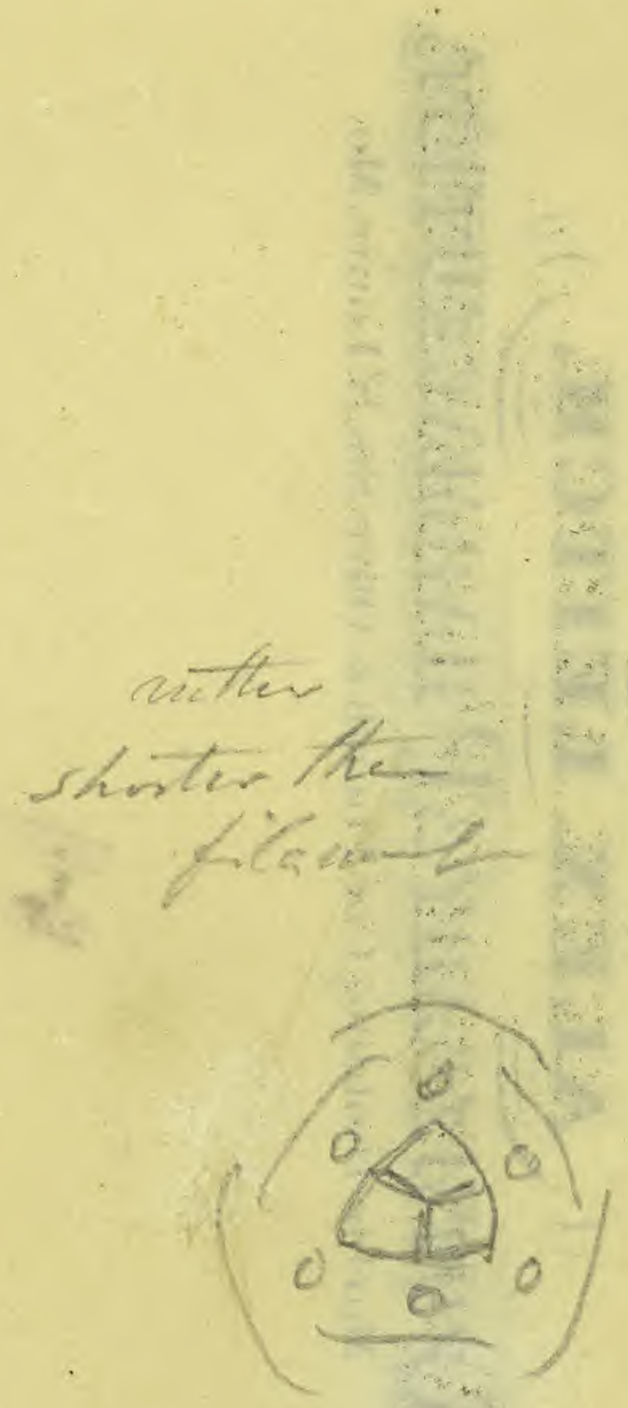
St Louis

Aug 14 1865

×60

very obscurely 9 ribbed
[illegible]
finely cross striated,

Capes 1/3 (Grey)
or 1/4 shorter
the sepals



wider
shorter than
filament

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cm
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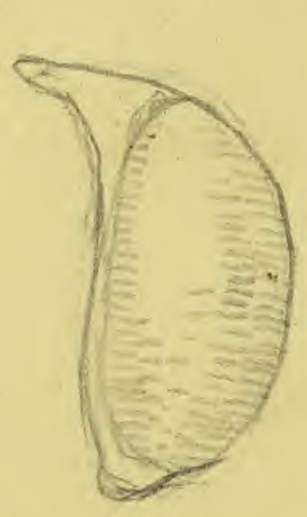
Juncus tenuis Aug 14 1865

Des Moines River, Jasper 1841



In Yellowstone River Specimen (Hayden) inner sepals a little shorter than outer ones, and ideutical

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cm
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1816

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ENGELMANN
GEORGE

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Panicum tenuis

Nov 7 1865

Seminibus parviflorum

Lancaster, Pa. H. C. Porter

seeds smaller

& lighter colored

thin & ordinary form

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c616

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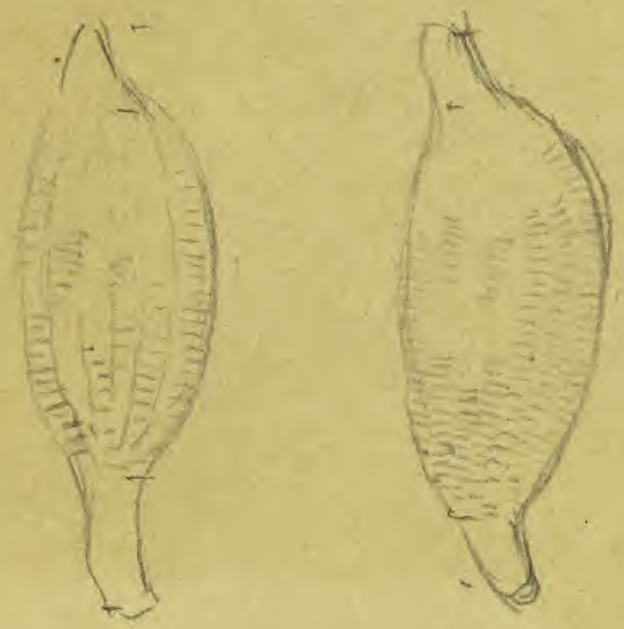
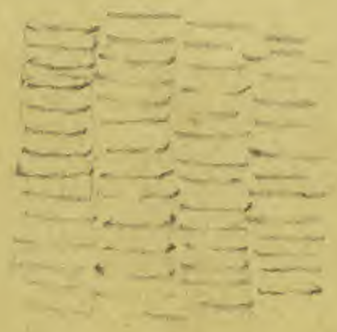
856 Juncus tenuis Nov 10 1846

Fadden, Santa Fe 1847

×6.



×150



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Ayer's Cherry Pectoral

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Eblb

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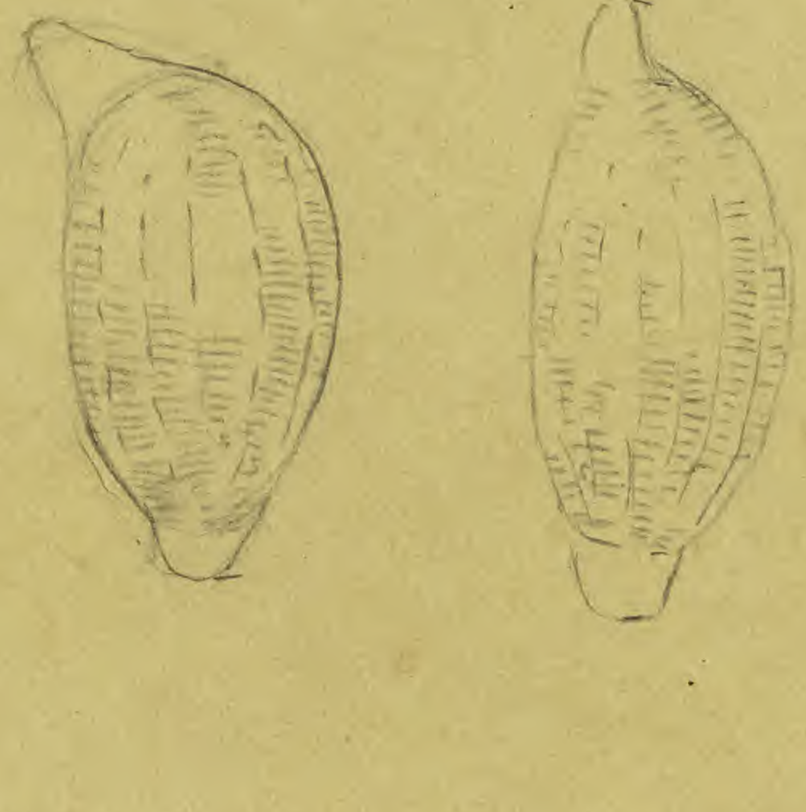
J. tenuis

Nov 10 1865

Colorado Hall = 146 Jones & Engl

×60



sepalis multi viridi
lateralibus furcatis
margine late membranaceo
petala rotundata, staminis
filamentum antice longius

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Meyer

APOTHECARY & PHARMACEUTIST,

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hblb

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D. tenuis

Nov 12. 1865

×60

×150

Sem. subtilla
ovato non aut vix
appendiculato.

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S. tenuis

gracilflora *laxiflora*

Bot 7 1865

Lancaster Pa. Porter

×6.

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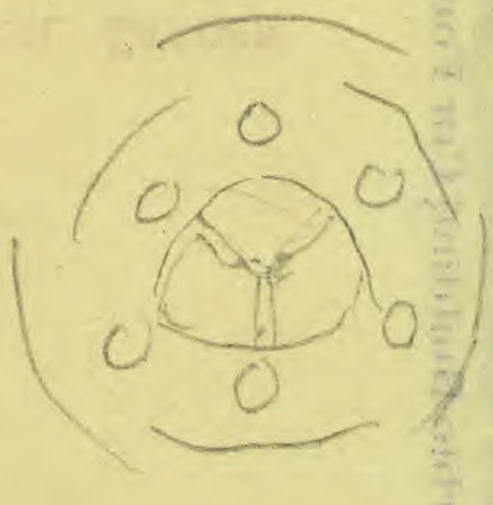
Aug 16 1865

Juncus

subsecundus "J. secundus" Wolle, Bibl. U. S.

×60

×10



ext. sepals shorter than the innovous

probably not distinct from.

J. tenuis

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cm
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2415 Calif. State Survey

Feb 25 1866

D. Jennis

Oakland, Bolander

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cm
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8616

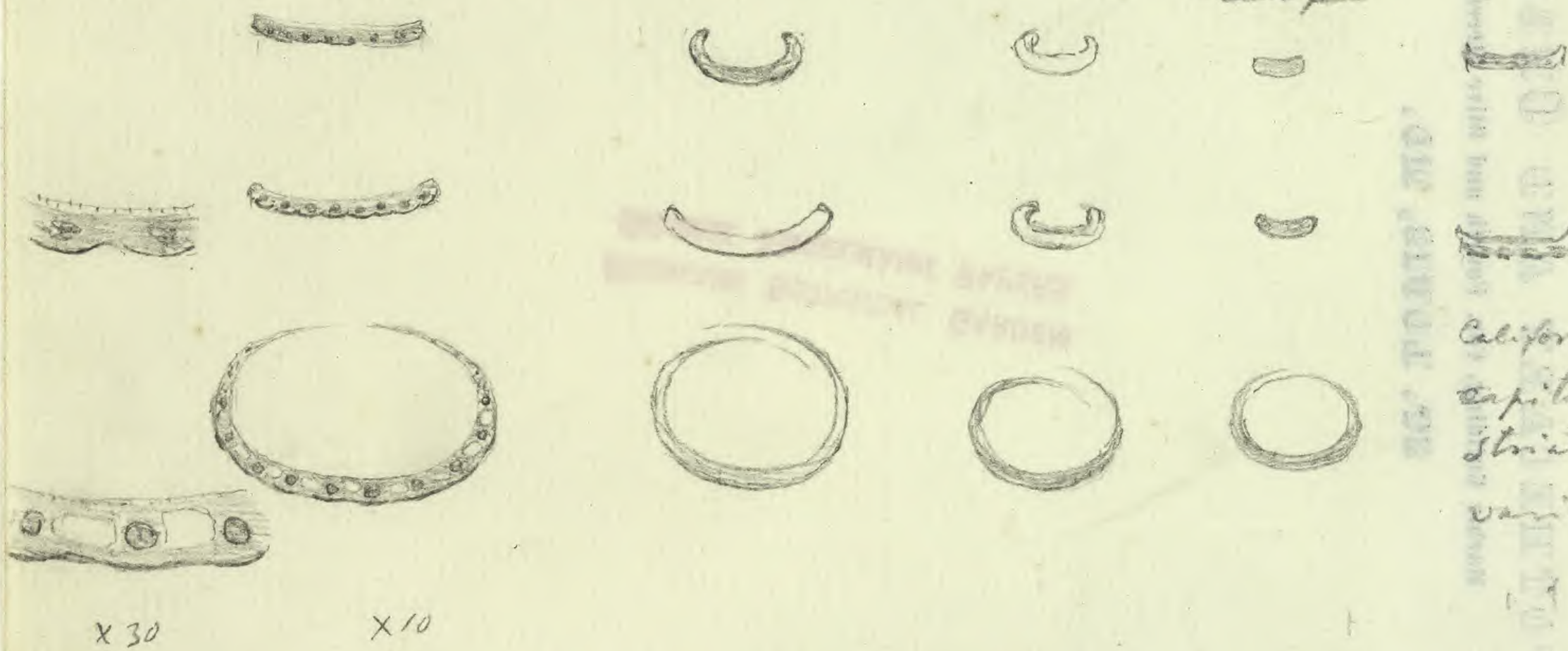
Juncus tenuis

March 8 1866

Section of leaves of all forms ×10 all well soaked

broad grass leaf

setaceous leaf



Californian capitate striate variety

×30 ×10

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cm 0 1 2 3 4 5 6 7 8 9 10
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Seminus tenuis Dec 9 1866

Buffalo, Clinton. foliis fere immersis

X10

section of sunken leaf

×60

×10

a little too long
flower 5.5 mm long

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cm
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D. tenuis

Centralia Ill. Dr Isaacs

÷ 46 grs

Forms of seeds,

x 6½

x 10

Capsule apiculate,

stipules six branched

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ALEXIAN

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1026

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Juncus tenuis var secundus

Abbottsford Olney

Lancaster Pa Porter Porter

Bethlehem " asthe

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7026

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6

H. Graminifolii

2 Tenues

242-296

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Graminifolii
Dihguliflori s. tenues
(omnes hexandri)
Simplices, enati
fissrati

L. Gerardi Loi
virescentes
crandati

L. tenuis Wild
L. Nicholsonii Ell
caudati

L. Greenii Oakes & Tuck.
L. Vaseyi n sp.

Ramosi diffusi
subsimplex glaucescentes

L. Curtissii A.

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Leitch & Corlies

DRUGGISTS

South West Corner Fifth and Market Streets.

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